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<b>(21) International Application Number:</b> PCT/SE99/02255 <b>(22) International Filing Date:</b> 2 December 1999 (02.12.99) <b>(30) Priority Data:</b> 9804215-3 3 December 1998 (03.12.98) SE <b>(71) Applicant (for all designated States except US):</b> ABB AB [SE/SE]; S-721 83 Västerås (SE). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> PERSSON, Fredrik [SE/SE]; Markörgatan 10 A, S-723 38 Västerås (SE). MIKAELSSON, Pierre [SE/SE]; Haga Parkgatan 3D, S-723 36 Västerås (SE). HVITTFELDT, Håkan [SE/SE]; Brunnbygatan 64, S-722 23 Västerås (SE). LARSSON, Jan [SE/SE]; Adolf Zethelius gata 11, S-724 78 Västerås (SE). <b>(74) Agents:</b> URBAN, Petré et al.; AB Stockholms Patentbyrå, Zacco & Bruhn, P.O. Box 23101, S-104 35 Stockholm (SE).		<b>(81) Designated States:</b> AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i> <i>In English translation (filed in Swedish).</i>
<b>(54) Title:</b> ROBOT DEVICE  <div data-bbox="412 1205 1175 1520" data-label="Image"> </div> <b>(57) Abstract</b> <p>Device for fixing a bearing means firmly in a three-axle ball and socket joint arranged in a robot. The bearing means is arranged in a housing (2) on the joint socket (1) and the housing (2) includes surface (4) against which the bearing means abuts. Surface (4) is designed with friction-increasing means (5) that grip the bearing means and hold it.</p>		